| Work Orde December-19-12 | | | | *945 | 512* | | | | | | Page 1 |
|---|----------------------|------------------------------------|---|----------------------|--------------------------|------------|--------------|---------------|-----------------|------------------|------------------|
| Revision ID: | D3913-9 Hinge Rib | | | Accept | *N900 | 040 | 100 |)* s | etup Star | 1 71 | S1* S2* |
| Start Date: Required Date: Reference: | 12/18/12 1/11/13 | Start Qty: 6.00 Req'd Qty: 6.00 | *6* *6* | | Cust Item I Customer: | D: | | | | | |
| Approvals: | | an: MLJ | | _ | | ate: | | R | tun Star Sto | 171 | R1* R2* |
| Sequence ID/ Work Center ID |) | Operation Description | | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
| Draw Nbr | Re | vision Nbr | | | | | | | | | |
| D3913 | В | | | | | | | | | | |
| 100 | | | | 0.00 | | | | | <i>(X)</i> | | |
| *100* Large Fab | | | as per dwg D3913 dentification marks and d | 0.00 leburr | | | | 6 | Q | 04 | 13/01-17 |
| 110 | | QC6- Inspect dimension | s to drawing | 0.00 | | | | _ | | a | • |
| *110* QC Quality Control | | Мето | | 0.00 | | | | 6x | | J.H | 13:01.17 |
| 120 *120* | | Identify as per dwg & St | tock Location: | 0.00 | | | | <u> </u> | xì | Λ_{l} | /3-0 / -/ |
| Packaging | | Memo | | 0.00 | | | | | X | 105 | 13-01 |

Memo

Packaging

| | | | | | | | | | | | DQA: | Dat | e: | |
|---------------|------------|-------------|----------|--------|--------------------------------|-----|----------|-----------------------|---------------------|---------|------------------|-------------------------|----------|--------------------|
| NCR: Y | es / No | | | | WORK ORDER NON-C | O | NFORI\ | ΛANCE / UPΓ | DATE | | _ | | _ | |
| | | | | | | | | | | (| QA Closed: | Dat | e: | |
| Work Orde | r. | | | | DISPOSITION | | | | AGAINST DE | P | ARTMENT/ | PROCESS | | |
| Work Orac | | | | | Rework | 1 | | Skid-tube | Crosstube | 7 | | Water Jet | \neg | Engineering |
| Part N | lo | | | | Scrap | | V | Machining | Small Fab | 1 | | d. Eng. Coor. | コ | Quality |
| NCR N | lo | | | | Use-as-is Work Order Update | | | oforming Large Fab | Finishing Composite | | Rec/Stor | e/Packaging Supplier | | Other |
| Root | | | | Descri | ption of work order update | | nitial | Act | ion | Τ | Sign & | | | |
| Cause | Date | Step | Qty | C | or Non-conformance | Ch | ief Eng | Descr | ription | | Date | Verification | ١ | QC Inspector |
| Doc/Data | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | |
| Operator [| | | | | | | | i | | 1 | | | | |
| Material | | | | | | | | | | | | | - | |
| Setup | | | | | | | | i | | ١ | | | 1 | |
| Other | | | | | | | | I | | | | | | |
| Process [| | | | , | | 1 | | 1 | | İ | | | | |
| Supplier | | | | • | | | | | | | | | | |
| Training | | | | | | ĺ | | | | | | i | 1 | |
| Unapproved | | | | | | | | <u></u> | | \perp | | | | |
| | | | | | F | AUL | T CATE | GORY | | | | | | |
| Landir | ng Gear | | | | General | | • | | _ | _ | | , | | • |
| | Bending | | | | Bend | | Grain | | | ا_ | Ovalized | | <u> </u> | Pressure/Forced |
| | Centre N | lot Conce | ntric to | o/s | BOM/Route | | Hardwa | re | | _ | Over/Under | tolerance | <u> </u> | Temperature/Cure |
| | Cracks | | | | Broken/Damaged | | Inspecti | ori Incomplete | | _ | Part Incorred | ct | <u></u> | Weld |
| | Crushed | /Crimped | | | Burrs | | Instruct | ions Incomplete/U | Unclear | _ | Part Lost/Mi | ssing | L | Wrong Stock Pulled |
| | Cuffs | | | | Contamination | | Mainte | nance | | ╛ | Part Moved | | | |
| | Heat Tre | at | | | Countersink | | Mislabe | led | | ╛ | Positioned V | Vrong | | |
| | Inspection | on Strip in | Tube | | Cut Too Short | | Misread | | | | Power Loss/Surge | | | Other |

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Ripples in Bend

Turning Sequence
Wave/Twist in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

| Work Ord December-19-1 | | | | *945 | 512* | | | | Page 2 |
|--|------------------------|------------------------------------|------------|----------------------|---------------------------|---------------------|---------------|-------------------|------------------------------|
| Item ID: Revision ID: Item Name: | D3913-9 Hinge Rib | | | Accept | *N9000 | <u>040100</u> |)* Se | tup Start Stop | *NS1* *NS2* |
| Start Date: Required Date Reference: | 12/18/12 e: 1/11/13 | Start Qty: 6.00 Req'd Qty: 6.00 | *6* *6* | | Cust Item II Customer: |): | | | |
| Approvals: | Process Pl | lan: | Date: | Tooling: SPC (Y/N): | Da Da | | Rı | un Start Stop | *NR1* *NR2* |
| Sequence ID/ Work Center | ID | Operation Description | · | Set Up/ Run Hours | Tool ID | Tool # Plan Code | Accept Oty | _ | Reject Insp. Number Stamp |

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

130

Quality Control

N13-01-22

| | | | | | | | | | | | DQA: | Date: | |
|---------------|----------|----------|-----------|-------------|---------------|----------------------------|----------|----------|-------------------------|----------|--------------|---------------|--------------------|
| NCR: | Yes / | No | | | • | WORK ORDER NON- | COI | NFORM | MANCE / UPDATE | | | | |
| | | | | | | | | | | | QA Closed: | Date: | |
| Work Ord | or: | | | | | DISPOSITION | | | AG | AINST DE | PARTMENT | /PROCESS | |
| WOIK OIG | ·'· — | | | | | Rework | 7 | | Skid-tube Cros | sstube | | Water Jet | Engineering |
| Part | No. | | | | | Scrap | 1 | | ⊢ | all Fab | Pro | d. Eng. Coor. | Quality |
| | | | | | ············· | Use-as-is | 1 | Thern | noforming Fir | nishing | Rec/Stor | e/Packaging | Other |
| NCR | No | | | | | Work Order Update |] | | Large Fab Com | posite | | Supplier | |
| | | | | | | | _ | L | | | | | T |
| Root | | _ | _ | _ | ł . | ption of work order update | i i | Initial | Action | | Sign & | | |
| Cause | _ | Date | Step | Qty | , | or Non-conformance | Cr | nief Eng | Description | | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | • | | | |
| Equip/Tooling | Ш | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | |
| Material | Н | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | · |
| Other | | | | | | | | | | | | · | |
| Process | Н | | | | | | | | | | | | |
| Supplier | \vdash | | | | | | | | | | | | |
| Training | H | | | | | | | | | | | | |
| Unapproved | <u> </u> | | <u> </u> | 1 | <u> </u> | | ΔΠ | LT CATE | CORV | | l, | <u>i</u> | |
| Landi | ng Gea | ır. | | | | General | 701 | CAIL | JON1 | | | | |
| Lario | | nding | | | <u> </u> | Bend | | Grain | | | Ovalized | | Pressure/Forced |
| | - | - | ot Concer | ntric to | 0/5 | BOM/Route | - | Hardwa | re | | Over/Under | tolerance | Temperature/Cure |
| | \vdash | acks | | | | Broken/Damaged | \vdash | 4 | on Incomplete | | Part Incorre | | Weld |
| <u> </u> | \vdash | | Crimped | | | Burrs | | - | ions Incomplete/Unclear | | Part Lost/Mi | · • | Wrong Stock Pulled |
| | ${f -}$ | ıffs | - | | <u> </u> | Contamination | | Mainte | · · | | Part Moved | · L | |
| | - | eat Trea | ıt | | <u> </u> | Countersink Mislabeled | | | | | Positioned V | Vrong | |

Misread

Out of Calibration
Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID:

94512

Parent Item:

D3913-9

Parent Item Name:

Hinge Rib

Start Date: 12/18/12

Required Date: 1/11/13

Page 1

Start Qty: 6.00

Required Qty: 6.00

Comments

IPP Rev:A new issue DD 10.03.19 verified by:EC

| Comments: | IPP Rev:A new is | sue DD 10.03.1 | 9 verified | d by:EC | | | | | | | | | |
|---------------------------------|------------------------|----------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
| M304TS0.750W.049 | | Purchased | No | | | 100 | f | 905.1312 | 7.875 | 49.736842 | | | |
| 304 SQ Tube .75x.75x.04 | 9W | | | | | | | | | | | | |
| | | | | Location | | Loc Qty | <u>La</u> | c Code | | | | | |
| | | | | MAT017 | | 2.0156214 | | | | | | | · |
| | | | | 121 | 898 | 2.0156214 | | | | | | | |
| | | | | WA006 | | 903.1155859 | | | | | | | |
| | | | | 122 | 2201 | 0.1626 | | | | | | | |
| | | | | 122 | 2425 | 39.0000000 | | | | | | | |
| | | | | 122 | 2666 | 0.7293 | | | | | * | | |
| | | | | 122 | 2710 | 20.5 | | | | | . 4 | ^ . | 1011 |
| | | | | 123 | 3219 | 289.5 | | | 40 | 1.74 | 6 |)4 | 15/01/ |
| | | | | 123 | 348 4 | 553.223686 | | | · | - | • | | |

| | | | | | | | DQA: | Date | | | | | | |
|--|------------------|---|---------------------------------------|------|-------------|---|----------------------------|--------------------|--|------------------|---|-------------------------------------|----|---|
| NCR: Y | ⁄es | / No | | | | WORK ORDER NON-C | O | NFORN | NANCE / UPDATI | | QA Closed: | Date | a: | |
| | | | | | | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | | | |
| Work Orde | er: _ | | · · · · · · · · · · · · · · · · · · · | | | | , | | - | | • | | _ | — |
| Part N | • | | | | | Rework Scrap Use-as-is | | N Therm | Machining Sr oforming F | osstube mall Fab | | Water Jet d. Eng. Coor. e/Packaging | | Engineering Quality Other |
| NCR 1 | ۷o. ₋ | | | | | Work Order Update | | | Large Fab Cor | mposite | | Supplier | Ц | Ш |
| Root | | | | | Descri | L ption of work order update | | nitial | Action | | Sign & | | | |
| Cause | | Date | Step | Qty | C | or Non-conformance | Ch | ief Eng | Descriptio | n | Date | Verification | | QC Inspector |
| Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training | | | | | | | | | | | | | | |
| Unapproved | Ш | <u> </u> | <u> </u> | L | | F | AUL | T CATE | GORY | | | <u> </u> | | |
| Landi | ng G | iear | | | | General | | | | | | | | |
| | | Bending Centre No Cracks Crushed/ Cuffs | Crimped. | | o/s | Bend BOM/Route Broken/Damaged Burrs Contamination | | Instruct Mainte | on Incomplete ions Incomplete/Unclea กลกсе | ar | Ovalized Over/Under Part Incorre Part Lost/M Part Moved | ct | | Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled |
| | \vdash | Heat Trea Inspection | | Tube | | Countersink Cut Too Short | H | Mislabe Misread | | ⊢ — | Positioned Wrong Power Loss/Surge | | | Other |
| | | • | • | | - 1 | I | | | | 1 | | | | |

Offset

Out of Calibration
Out of Sequence

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Ripples in Bend

Turning Sequence

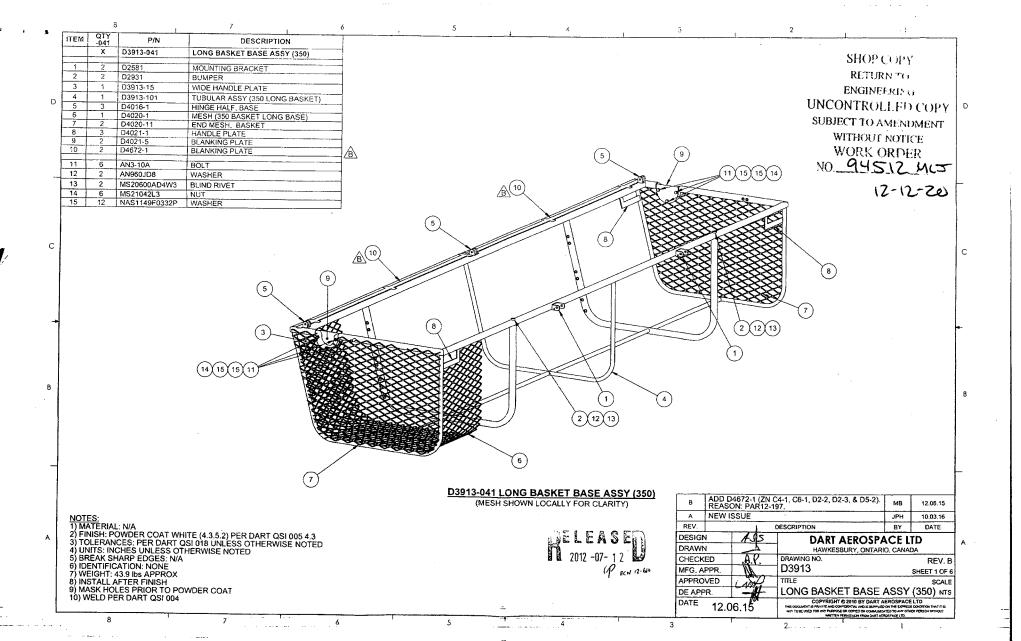
Wave/Twist in Tube

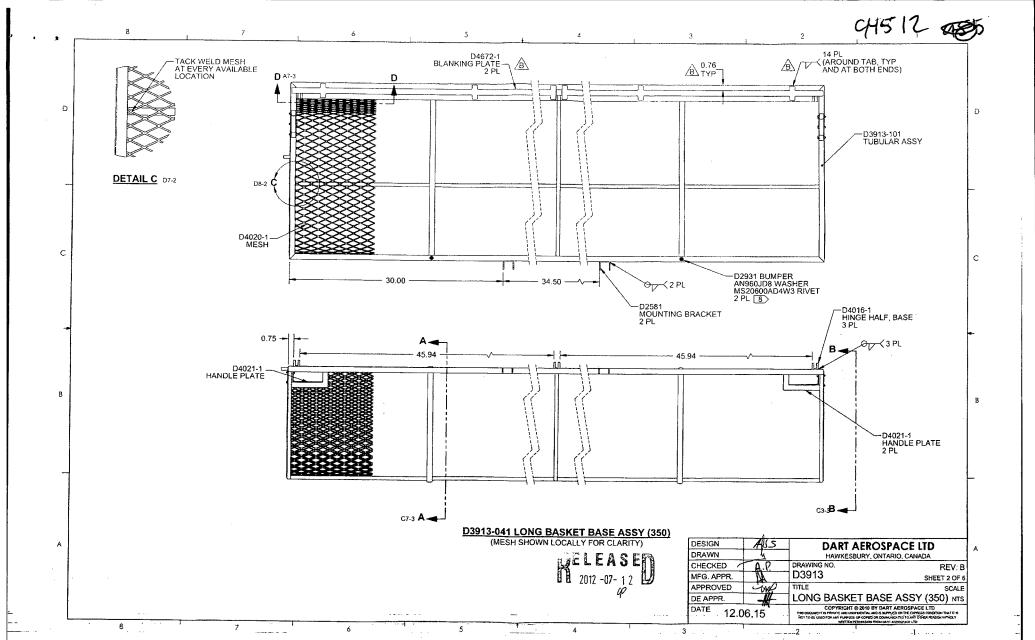
Torque Waves in Extrusion

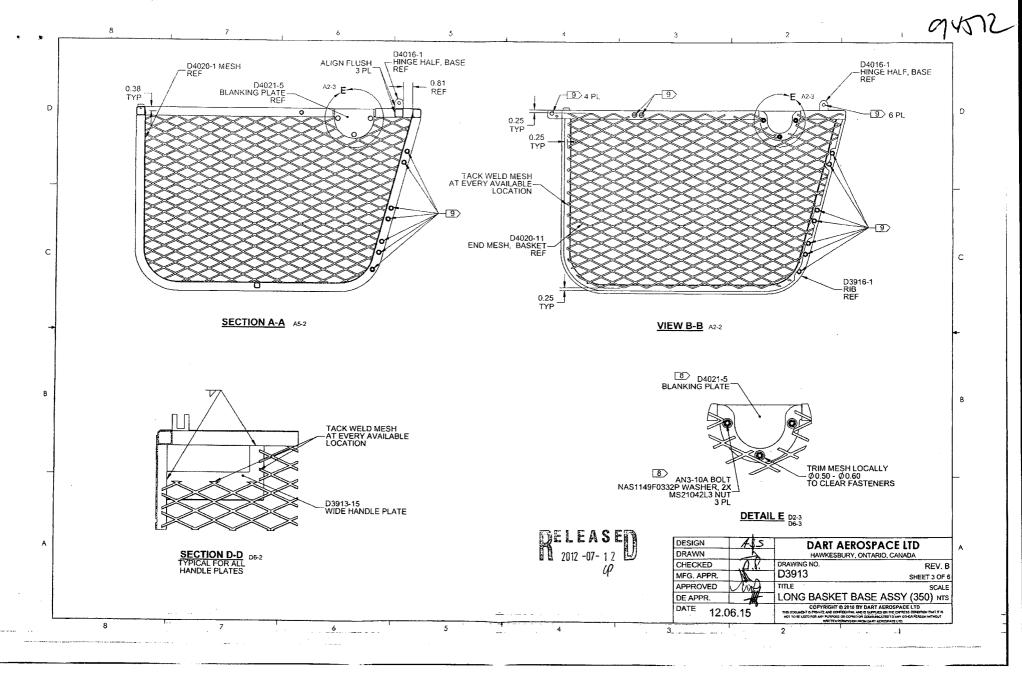
Drill Holes

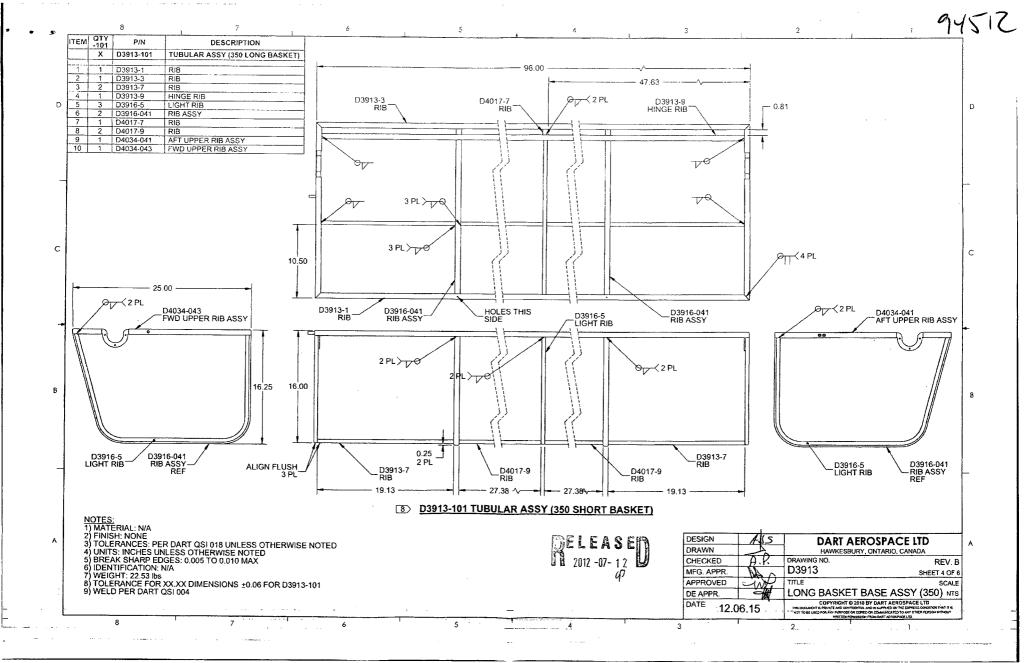
Drawing

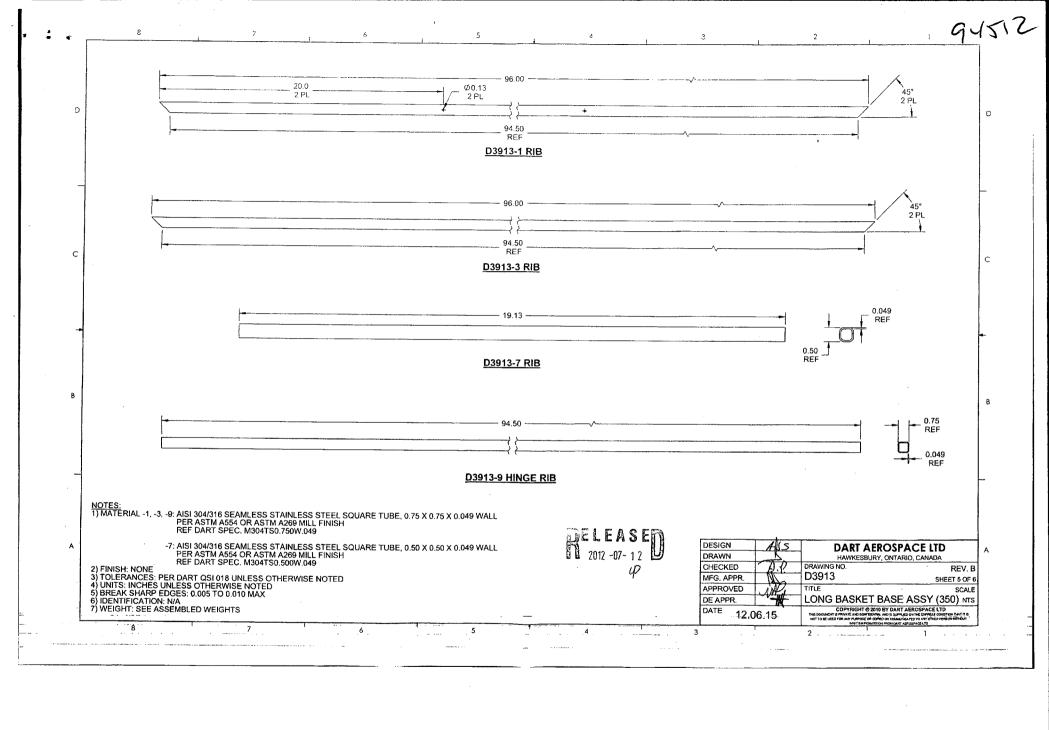
Finish Folio





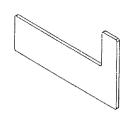


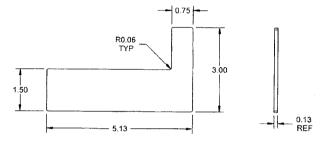




94572

С





D3913-15 WIDE HANDLE PLATE

NOTES:
1) MATERIAL: 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH,
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.31 lbs

С

2012 -07- 12 ā

| DESIGN | 4.5 | DART AEROSPACE LTD |
|------------|-------|---|
| DRAWN | 13 | HAWKESBURY, ONTARIO, CANADA |
| CHECKED | A.V. | DRAWING NO. REV. B |
| MFG. APPR. | M | D3913 SHEET 6 OF 6 |
| APPROVED | 100 | TITLE SCALE |
| DE APPR. | 4 | LONG BASKET BASE ASSY (350) NTS |
| DATE 12.0 | 06.15 | COPYRIGHT © 2010 BY DART AEROSPACE LTD THE DUGLARMY IS PREVAIT, AND COMMODORM, AND IS SUPPLED ON THE EXPRESS EXECUTION THAT IT IS NOT TO BE USED FOR ANY DIMPOSIT OR COMMOD OR COMMANDED TO ANY OTHER PRISON WITHOUT — - WRITTEN PROMISSION FROM LIVET ARROS FACE, IT ID |